



U.S. Department of Energy
Energy Efficiency and Renewable Energy

freedomCAR & vehicle technologies program

DESC World Wide Energy Conference

DESC and EPAct/E.O. 13149

**September 29,
2004**

**Shab Fardanesh
U.S. Department of Energy**



Topics

- **E.O. 13149/EPAct Requirements**
- **Federal Fleet Performance to Date**
- **DOD Performance to Date**
- **Recommendations to Federal Fleets**
- **DESC's Role**



E.O. 13149/EPAct Requirements on Federal Fleets

- **Reduce petroleum consumption by 20%**
 - **Use alternative fuel in AFVs more than 50% of the time**
 - **Increase fuel economy of non-AF LDV acquisitions**
- **Reinforces compliance with EPAct**
 - **75% of covered LDV acquisitions must be AFVs**



Federal Fleet EPA Act Compliance

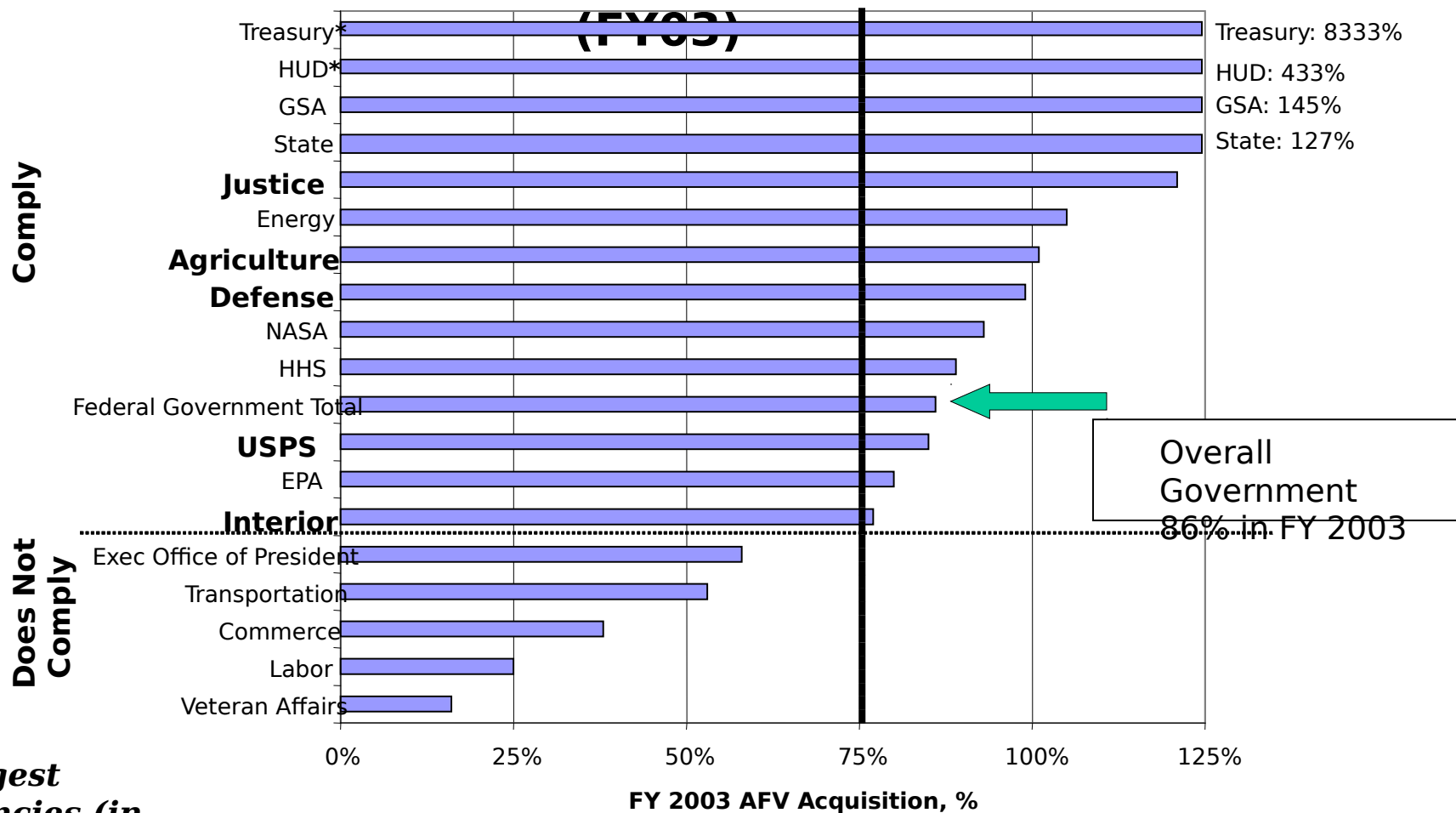
Fiscal Year	AFVs Acquired	Total EPA Act Credits*	Percent of Acquisition	Total AFV Inventory
2000	7,922	9,188	44%	55,260
2001	8,798	9,736	45%	58,242
2002	9,387	10,870	60%	65,687

Source: FAST database

** Includes additional credits for biodiesel use and dedicated AFVs (LD, MD, HD)



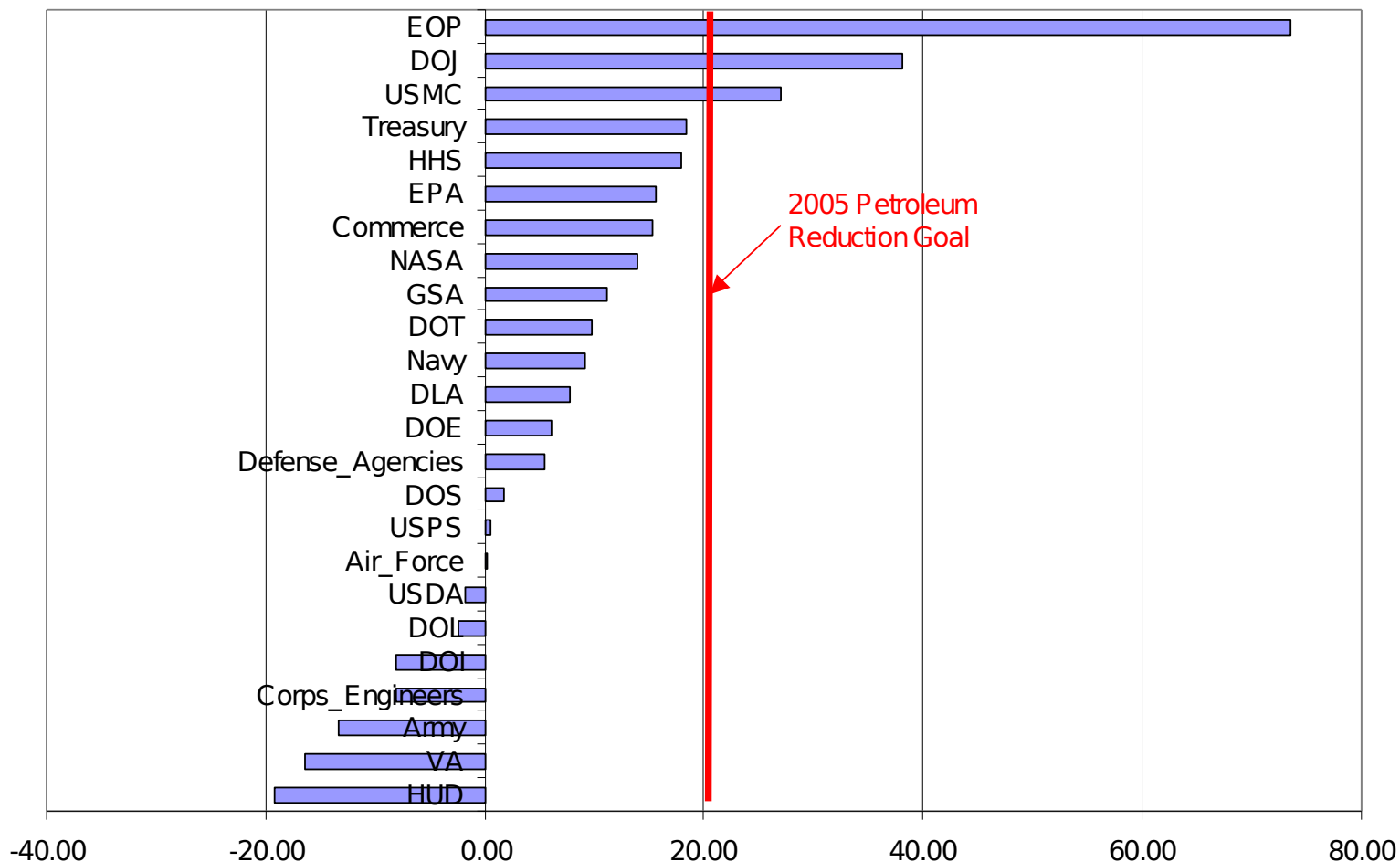
Federal Fleet EPO Act Compliance



*Number of EPO Act covered vehicles for these agencies is extremely small (less than 5).




E.O. 13149: Federal Fleet Petroleum Reduction (FY03)






Federal Fleet Alt Fuel Use

14%



2.1%



Agencies are acquiring more AFVs.....but alternative fuel use is still low.

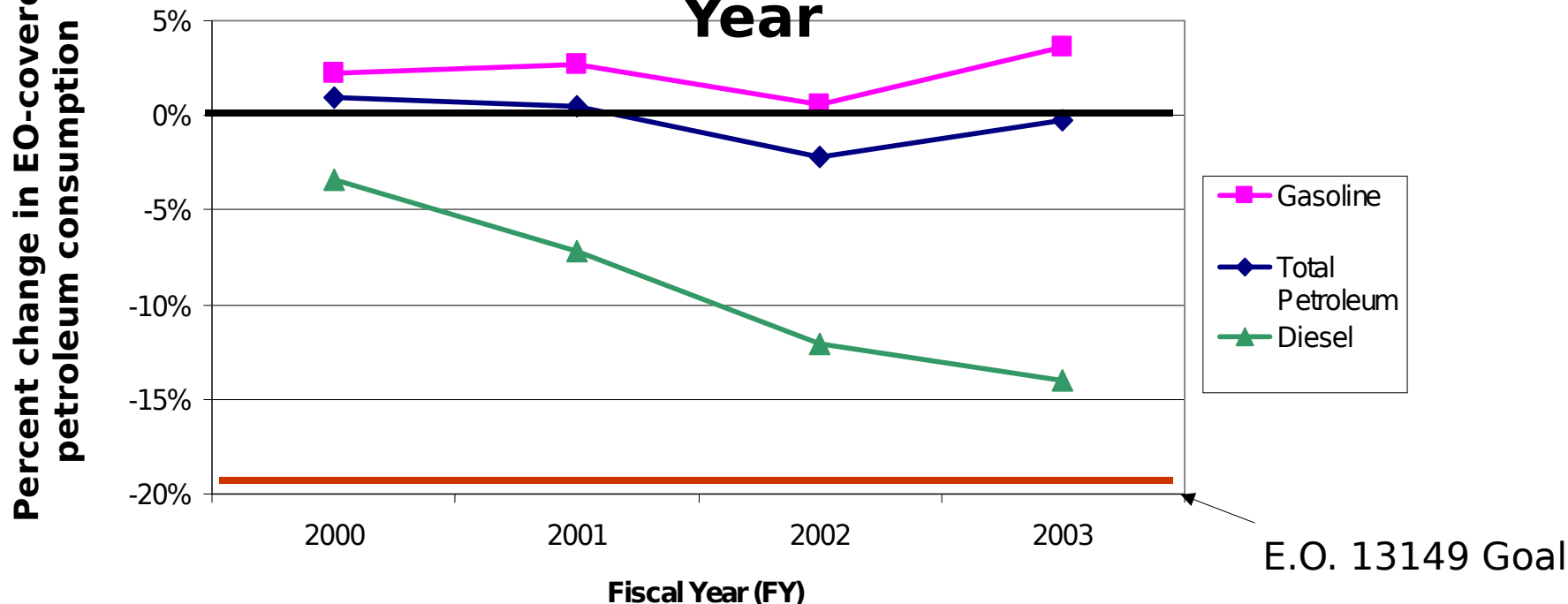


U.S. Department of Energy
Energy Efficiency and Renewable Energy

Biodiesel (B20) Use in Federal Fleets



Percent Change in E.O. 13149 Covered Petroleum Consumption vs Baseline Year



- Gasoline use dominates overall Fed Fleet petroleum consumption (> 80% of covered petroleum use)
- As a result, the Fed Fleet experienced a slight decrease (0.3%) in covered fuel use in spite of a significant diesel fuel use reduction.

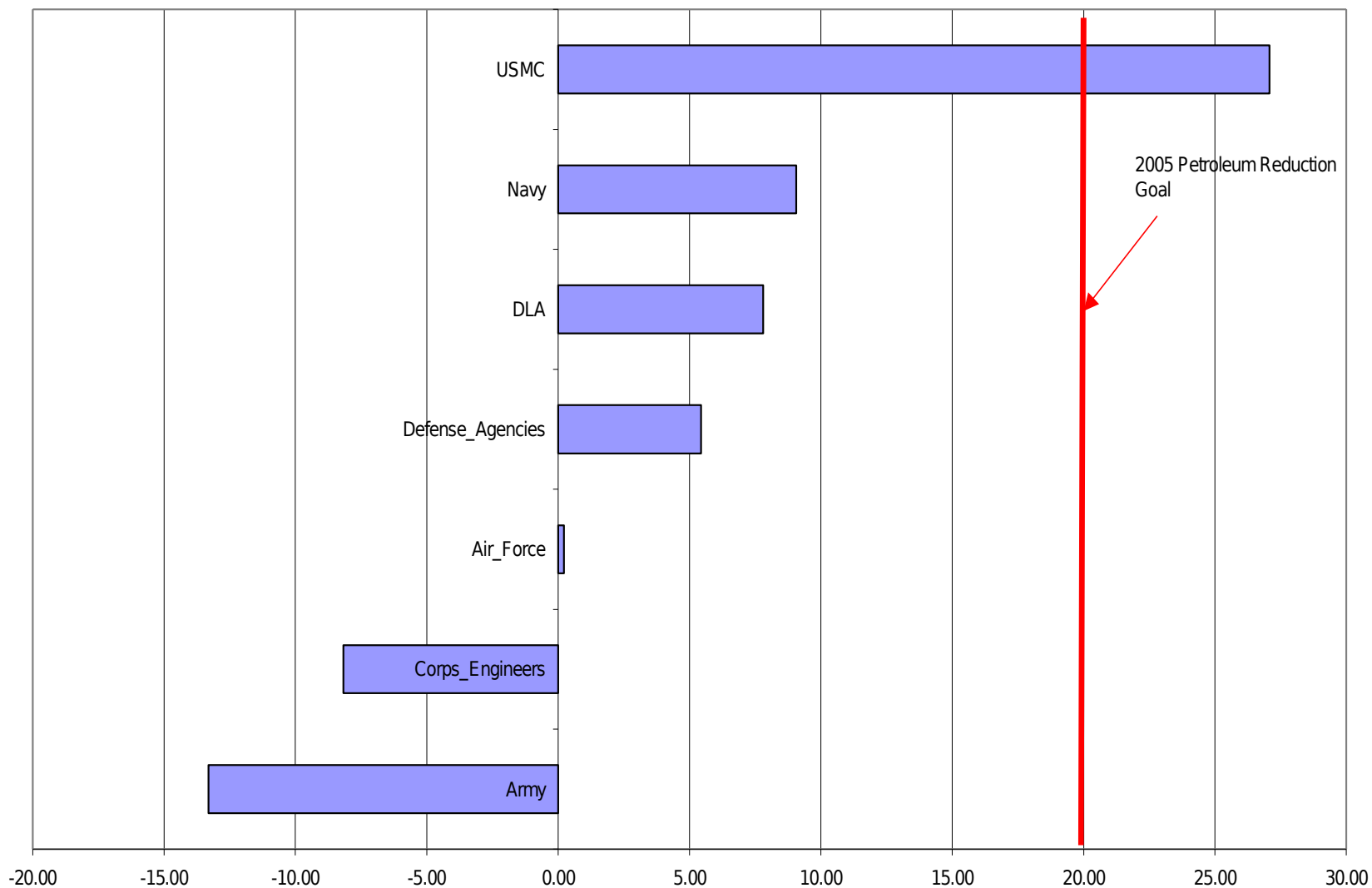


DOD Compliance with EPA Act

- Air Force – 130%
- Army – 152%
- Corps Engineers – 67%
- DCMA – 133%
- DLA – 81%
- Marine Corps – 136%
- Navy – 115%
- Defense Agencies – 112%

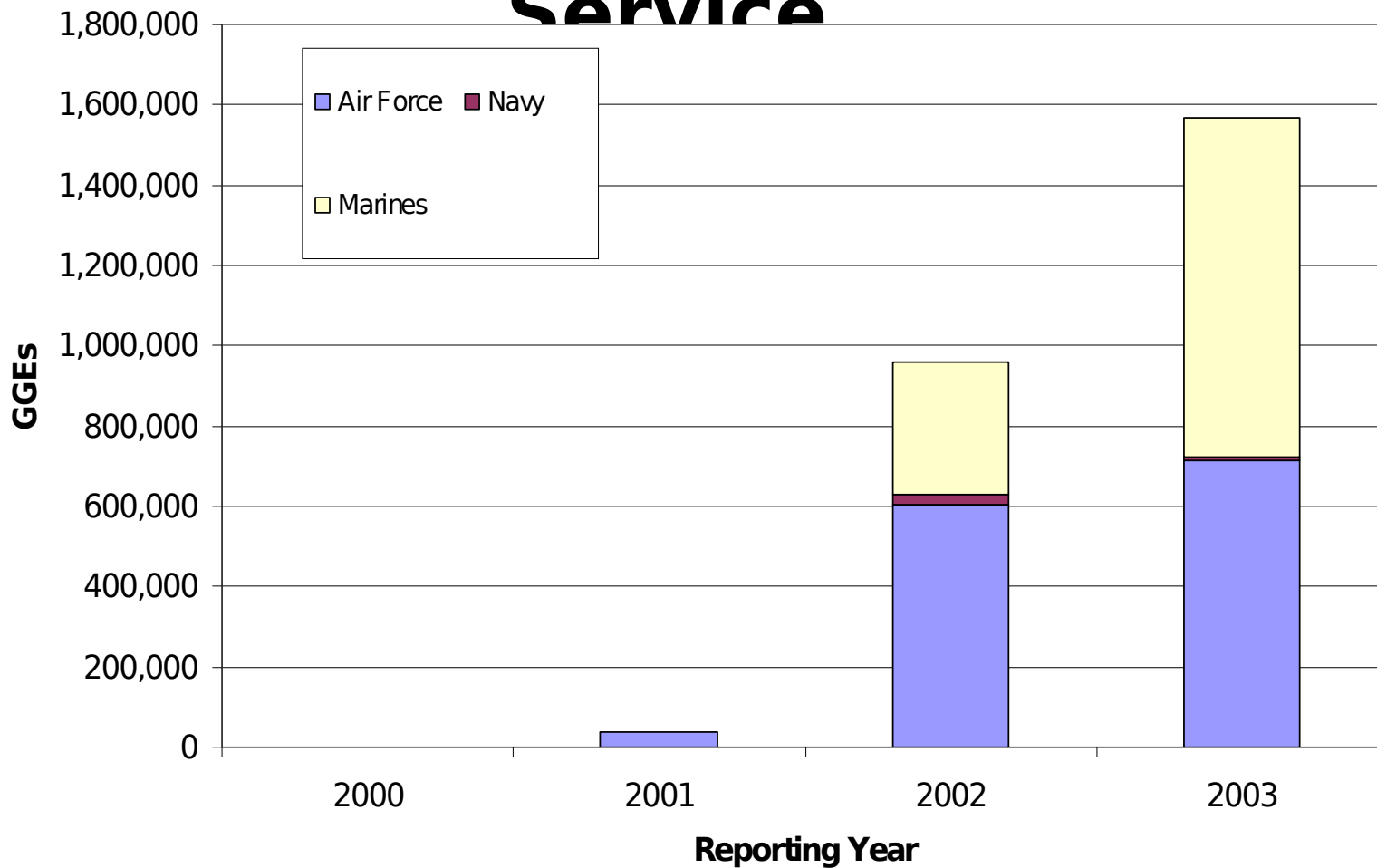


DOD Progress Towards E.O.





Biodiesel (B20) Use by DOD Service





Federal Fleet Performance Summary

- AFV acquisitions at 86% in FY 2003 (equivalent to 115% compliance)
- Over 80,800 AFVs currently operating
- Many agencies not likely to meet 20% goal by FY05
- Alternative fuel use low
- Significant biodiesel usage increase – 1,558 EPA Act credits in FY 2003



Recommended Expanded Efforts for Meeting the FY2005 Goals

- Expand AFV usage and strategically install AF infrastructure
- Explore refueling infrastructure partnerships
- Maximize alt fuel use (where available) in AFVs and biodiesel use in diesel vehicles
- Acquire hybrids and NEVs for non EPA-act-covered fleets
- Reduce size of conventional vehicles acquired



DESC's Role

- DESC plays an important role in supplying fuel to federal agencies
- Growth in biodiesel use in federal fleets linked to DESC
- Inclusion of E85 to list of fuels provided would help agencies meet mandate
- Working with GSA will help sort out issues with tracking fuels



U.S. Department of Energy
Energy Efficiency and Renewable Energy

Information & Resources



EPAct Fleet Information & Regulations Web site:
www.eere.energy.gov/vehiclesandfuels/epact/

- Fact Sheets
- Guidance Documents
- Compliance Tools
- Frequently Asked Questions
- Agency & Federal Fleet Annual Reports



Shab Fardanesh
shabnam.fardanesh@ee.doe.gov
202 586-7011

Fed Fleet Regulatory Information:
fed_fleets@afdc.nrel.gov

Questions? Please contact me!